METHOD, APPARATUS AND PROGRAM STORAGE DEVICE FOR DYNAMICALLY RESIZING MIRRORED VIRTUAL DISKS IN A RAID STORAGE SYSTEM

ABSTRACT

5   A method, apparatus and program storage device for dynamically resizing mirrored virtual disks in a RAID storage system is disclosed. Mirrored virtual disks are expanded by creating the amount of storage necessary by providing RAIDs on each subsystem that is associated with each of the components of the mirror set, attaching the RAIDs to the specific Virtual Disks for each of the mirror devices, and specifying the

10   Virtual Disk size and mapping this directly to all components via the source Vdisk of the mirror set. To decrease the size of mirrored virtual disks the process is reversed, with the inclusion of the optional requirement that some raids will need to be truncated to provide exact shrink values without sacrificing storage space.